

CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAATTGGCCCAGTGTTCCTCCT
 CATGGTAATCTCATGCCCTCTACAATCTACATCCAGTACACTCTCAGGTCAACATCAGAGTAAGGATATGGAGCCTA
 GGATCCCCTTCTTAAACAACCTGGAGACGTAATAACCCCTCTTTATTAATGCATAGAATTAAAGATTTCCATAGGGATAT
 TTAACAGAAAACCACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTGAGGT
 AGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAAATTTTATAGGTACTGACAAGATGGAAGTC
 AACATTTCAATGCCCTCTGAATGGATCAGAAGTTGTGTTTTATGATTCTACCACCTCAAGTGTTCATGGATCCTCT
 CATTAGTGGTTCCTTTATAACCTTTGTCCTCGGTGTTCAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTC
 GATGGCACACACTGTGACCACGTCTCTTATCTGAACCTTGGCTTTGAGTGATTTATCTTTTCATGGTTACTCTACCA
 CTTACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTCTTTGCAAATTAGTTCACATAATTG
 CAAACATAAACCTTTTTGTAAAGTATCTTCCTAATCACTCTTATTGCCATGGATCGCTGTATTTGTGTCTCTGCTG
 AGTATGGTCTCAGAATCACCGAACGTGTGAGTCTGGCCAGAAAAGTGGTTCCTGGAGCTTGGATATTTGCTCTGCTG
 CTTACCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTATATCTAAATTTG
 AATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTGCTGCCACAGCTTCAGGAATCATCAATTT
 CATTATTGGATTGAGCATGCCCATGTCTTTTATTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGA
 GGC'TTTGTGAATTCAGTCGTCTTTTACGTGTCTCAGTGTGTAGCGATTTCTTCTTTGTCTGTTGGTTCCTCTT
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTTCATATGTTGGTTAACCCAGC
 AAATACCTTGGCTTCCCTTTAACAGCTGCCCTCAACCCAATACTCTATGTATTCCCTGGGTGAGGAATTCAGAGACAGA
 CTAATCTATTCTCTGTATGCCAGTCTAGAGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGA
 GCACTGACACAGACAGCAACTTGTCTTCATGAACCTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGCCAAT
 GGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGAAATTTCTGAGTATAACTATA
 GAATCTCTCTGATTCTGATTGGAAGACAGAAGT (SEQ ID NO:1)

MEVNISMPLNGSEVVFYDSTTSSVLWILSLVVLFITFVLGVLGNGLVIWVAGFQMAHTVTTVSYLNLALSDLSFMV
 TLPLHIISMVMRGKWLFGWFLCKLVHIIANINLFSIFLITLIAMDRCICVLCPVWSQNHRVTVSLARKVVLGAWIF
 ALLLTLPFLFLTTVRDARGDVYCIKSFESWVATSEEQLKMSVIAATASGIINFIIGFSMPMSFIAICYGLMAAKI
 CRRGFVNSSRPLRVLTAVAISFFVCWFPFQLIMLLGNIFNNETLSIIHMLVNPANTLASFNCLNPILYVFLGQEF
 RDRLIYSLYASLERALRED (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

bold = sequence flanking Neo insert in targeting construct

CCTTTCCATAGAGAA**CAAAGAACTAAAGAAAT**CTGTGACAAATGGACAATATAATTGGC
 CCAGTGTTCCTCCTCATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTC
 AGGTCAACATCAGAGTAAGGATATGGAGCCTAGGATCCCTTCTTAAACAACCTGGAGACGT
 AATAACCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATATTTAACAGAAAAC
 CACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTG
 AGGTAGCGGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAAATTTTATAG
 GTACTGACAAGATGGAAGTCAACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTT
 ATGATTCACACCTCAAGTGTTCATGGATCCTCTCATTAGTGGTTCCTTTTATAACCT
 TTGTCCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCAGATGGCAC
 ACACTGTGACCACTGTCTTATCTGAACCTGGCTTTGAGTGATTTATCTTTCATGGTTA
 CTCTACCACTTCACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTC
 TTTGCAAATTAGTTCACATAATTGCAAACATAAACCTTTTTGTAAGTATCTTCCTAATCA
 CTCTTATTGCCATGGATCGCTGTATTTGTGTCTGTGCCAGTATGGTCTCAGAATCACC
 GAACTGTGAGTCTGGCCAGAAAAGTGGTCTTGGAGCTTGGATATTTGCTCTGCTGCTTA
 CCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTA
 TATCTAAATTTGAATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTG
 CTGCCACAGCTTCAGGAATCATCAATTTCAATTATTGGATTTCAGCATGCCCATGTCTTTCA
 TTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGAGGCTTTGTGAATTCCA
 GTCGTCTTTACGTGTCCTCACTGCTGTAGCGATTTCTTCTTTGTCTGTTGGTTCCCTT
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCATA
 TGTGTTGGTTAACCCAGCAAATACCTTGGCTTCCTTTAACAGCTGCCTCAACCCAATACTCT
 ATGTATTCCTGGGTCAGGAATTCAGAGACAGACTAATCTATTCTCTGTATGCCAGTCTAG
 AGAGGGCCCTGAGGGAAGACTAGTCTTGATGGAAAATTCAGTCCTGAGCACTGACACAG
 ACAGCAACTTGTCTTCATGAACCTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGC
 CAATGGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGA
 AATTTCTGAGTATAACTATAGAATCTCTCTGATTCTGATTTGGAAGACAGAAGT

FIGURE 2A

10026937.122101

Gene Sequence
Structure *

399 bp

Sequence Deleted

549 bp

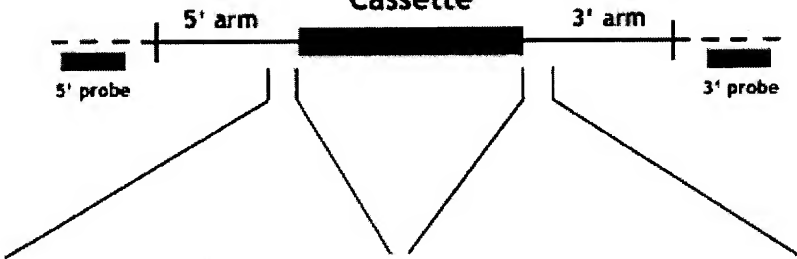
Size of CDS: 1554 bp



Targeting Vector*
(genomic sequence)

LacZ-Neo
Cassette

Arm Length:
5': 0.3 kb
3': 6 kb



————— Targeting Vector
- - - - - Endogenous Locus

* Not drawn to scale

<p>5' >CATAGAATTAAGATTTCATA GGGATATTTAACAGAAAACCACAT TTACTCTATTACCCCTAGAATAGG TACTTTTTTAAAATAGAAGGTGATG TGGGATCTGAGGTAAGGCGGGACA AGATGGAGACACATCTGAAAAATA GTTATTGTTGAAAATTTTAGGTG CTGACAAGATGGAAGTCAACATTT CAATGCCCTCTG<3' (SEQ ID NO:3)</p>	<p>5' >CCACTGTCTCTTATCTGAACT TGGCTTTGAGTGATTTATCTTTCA TGGCTACTCTACCACTTCACATCA TCTCAATGGTCATGAGAGGAAAAT GGCTTTTTTGGTTGGTTTCTTTGCA AATTAGTTCACATAATTGCAAACA TAAACCTTTTTGTAAGTATCTTCC TAATCACTCTTATGCCATGGATC GCTGTATTTGT<3' (SEQ ID NO:4)</p>
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FIGURE 2B

Open Field Summary Data - Percent in Central

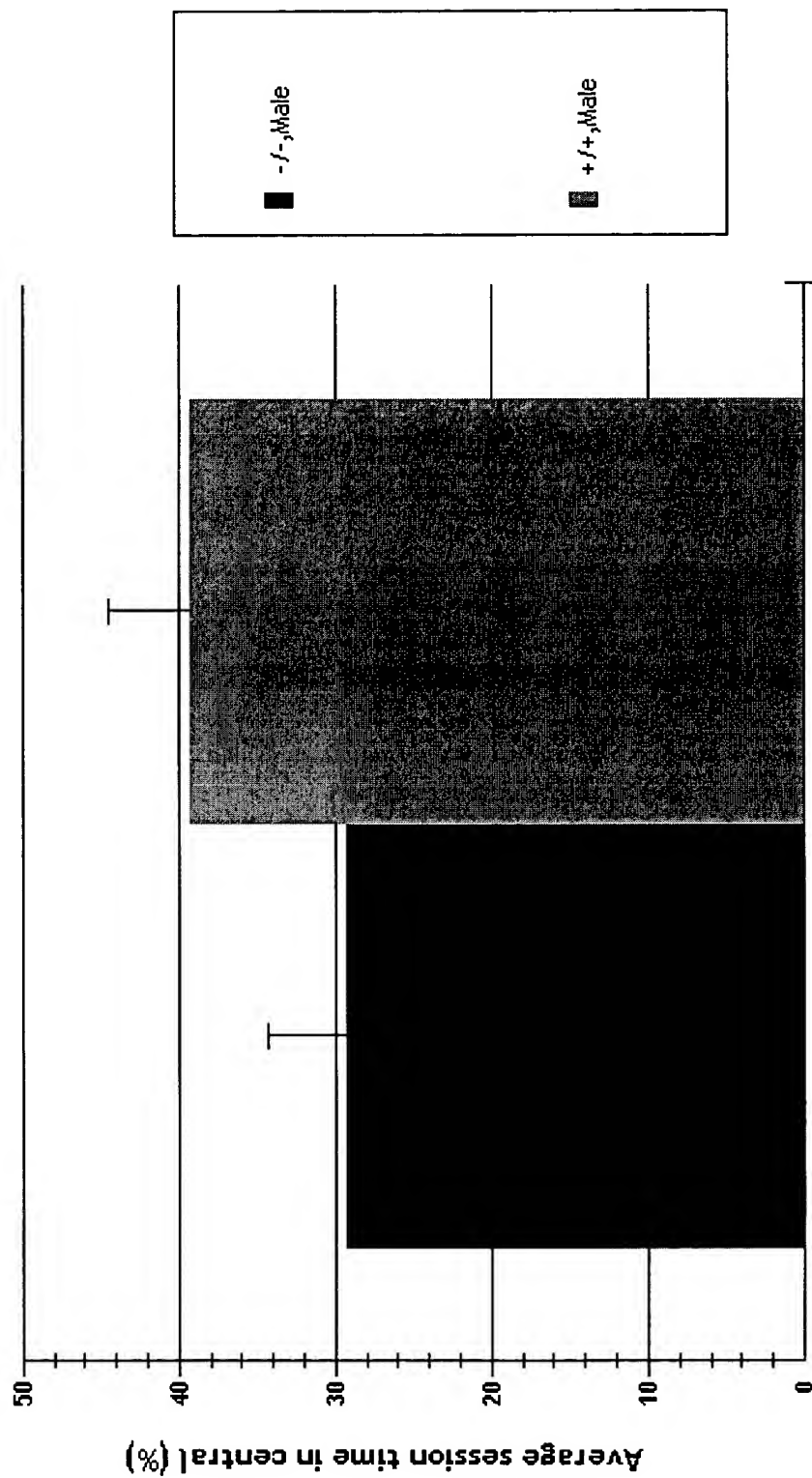


FIGURE 3

Rotarod

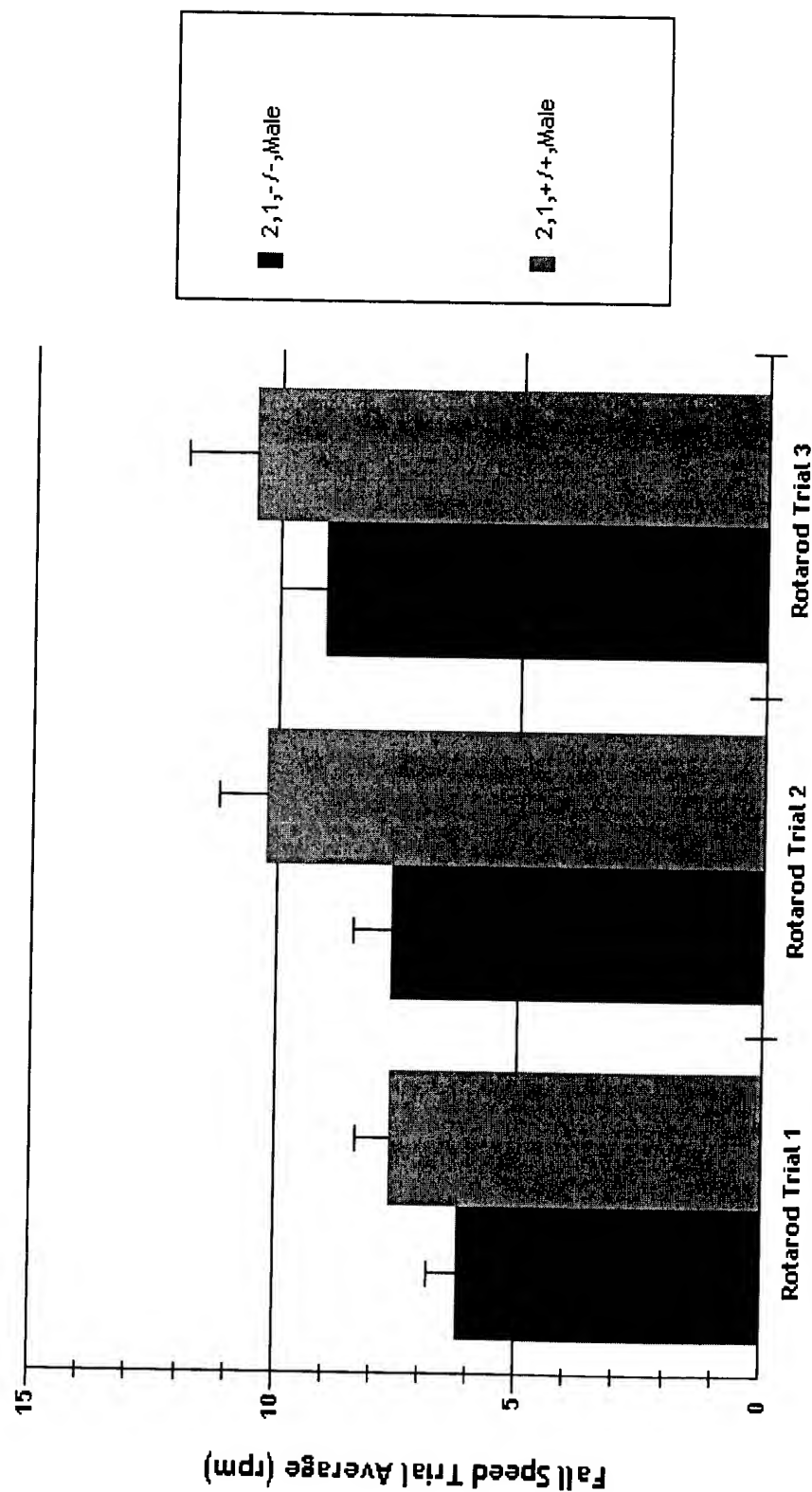


FIGURE 4

Metrazol

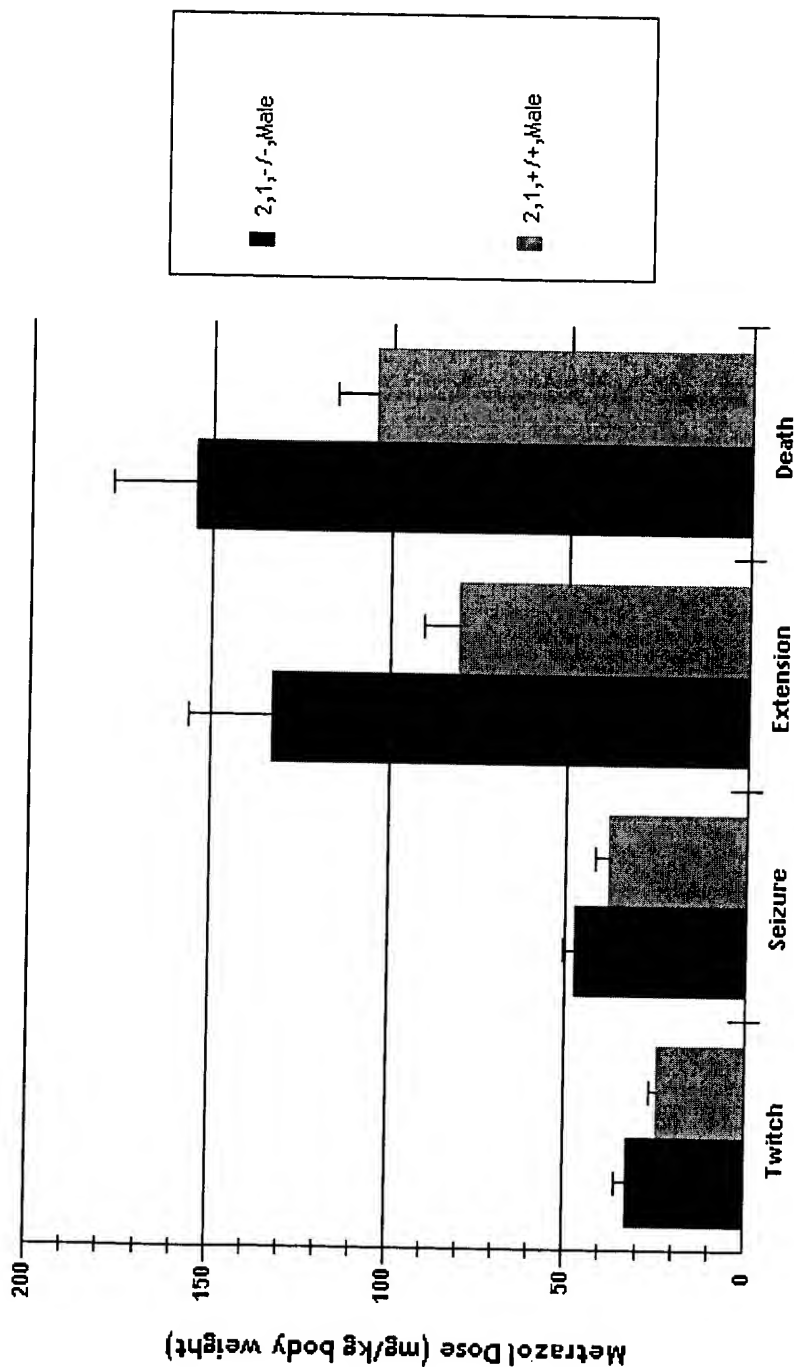


FIGURE 5